
Transforming Healthcare:

Change Drivers, National Initiatives, and North Carolina

*Improving Healthcare in North Carolina by Accelerating the
Adoption of Information Technology*

Outline

- **NCHICA Background & Activities**
- **Environment for forming collaborations**
- **Initiatives across NC**
- **NCHICA's Role in building statewide capabilities**

NCHICA Background

- Established in 1994 by Executive Order of Governor
- Mission: ***Improve healthcare in NC by accelerating the adoption of information technology***
- 501(c)(3) nonprofit - research & education
- 220 member organizations including:
 - Providers
 - Health Plans
 - Clearinghouses
 - State & Federal Government Agencies
 - Professional Associations and Societies
 - Research Organizations
 - Vendors and Consultants

Initiatives Include:

- **Statewide Patient Information Locator (MPI) – 1994-1995**
- **NC Model Privacy Legislation – 1995-1999**
- **HIPAA – 1996-Present**
- **Secure Internet access to statewide, aggregated immunization database – 1998-2005 (PAiRS)**
- **Standards-based, electronic emergency dept. clinical data for public health surveillance – 1999-Present (NCEDD > NC DETECT)**

Initiatives Include:

- **NC Healthcare Quality Strategy – 2003**
- **Use of Technology in Local Health Departments Study – 2005-2007**
- **Disease Registries in Primary Care Conference - 2006**
- **Nationwide Health Information Network Architecture - 2005-2006**
- **Health Information Security and Privacy Collaboration – 2006-2007**
- **eRx Workshop and Strategy**
- **NC Consumer Advisory Council on HIT**

NC Healthcare Quality Initiative

- **Phase I – Medications Management**

- Medication history compiled from multiple sources
- Automate refills
- Access to formularies
- e-Rx

- **Phase II – Electronic Exchange**

- Laboratory orders and results
- Radiology orders and results

- **Phase III – Broad Adoption**

- Accelerate Adoption of EHRs, EMRs, and PHRs

Current National Initiatives Include:

- NHIN Architecture Prototype – IBM Contract
– NCHICA and 2 NC Marketplace Communities
- HISPC Privacy and Security – NCHICA
selected by Governor to lead NC Proposal
Effort; Contract with RTI International
- NC Consumer Advisory Council on Health
Information Technology (Under development)

“Connected Communities”

- A collaborative, consumer-centric collaboration or organization focused on facilitating the coordination of existing and proposed e-health initiatives within a region, state, or other designated local area.
- May be called:
 - RHIOs (Regional Health Information Organizations)
 - RHINs (Regional Health Information Networks)
 - SNOs (Sub-Network Organizations)

Models for Connected Communities

- Federation – multiple independent / strong enterprises in same region
- Co-op – multiple enterprises agree to share resources and create central utility
- Hybrid – region containing both Federation and Co-op organizations
- Other ???

Types of Connected Communities

- **Federations**

- Includes large, “self-sufficient” enterprises
- Agreement to network, share, allow access to information they maintain on peer-to-peer basis
- May develop system of indexing and/or locating data (e.g., state or region-wide MPI)
- In NC (Triangle, Triad, Charlotte Metro, Western NC)

Types of Connected Communities (cont.)

- Co-ops
 - Includes mostly smaller enterprises
 - Agreement to pool resources and create a combined, common data repository
 - May share technology and administrative overhead
 - In NC (Rural NC, Eastern NC, other)

Types of Connected Communities (cont.)

- **Hybrids**

- Combination of Federations and Co-ops
- Agreement to network, share, allow access to information they maintain on peer-to-peer basis
- Allows aggregation across large areas (statewide or regional)
- In NC
(Hybrid may be required for Statewide initiatives)

Models for Organizational Structure

- **“Utility” Provides Functions Such As:**
 - Centralized database
 - Patient information exchange
 - Clearinghouse
 - Patient information locator service
- **Neutral, Convener, Facilitator**
 - Builds Consensus Policies
 - Brings together competitive enterprises
 - Bridges multiple RHIOs in geographic location
 - Seeks Open-standards approach – non vendor specific

Models for Organizational Structure (cont.)

- **“Utility” Operator**

- Quicker to implement
- Fewer initial participants
- Build involvement over time
- Forces early technology selection

- **Neutral, Convener, Facilitator**

- Slower to implement
- Building consensus difficult and may frustrate participants who want to get started
- Open standards approach leaves opportunities for more organizations and vendors to participate
- Perhaps only way to bridge multiple RHIO efforts

Challenges to Broader Exchange of Information

- **Business / Policy Issues**

- Competition
- Internal policies
- Consumer privacy concerns / transparency
- Uncertainties regarding liability
- Difficulty in reaching multi-enterprise agreements for exchanging information
- Economic factors and incentives

- **Technical / Security Issues**

- Interoperability among multiple parties
- Authentication
- Auditability

Organizational Structure

- **501(c)(3) Nonprofit**
 - Eligible for Federal and State Grants
 - Contributions may be tax deductible as charitable
- **Considerations for Nonprofit:**
 - Limit of ~20% - 40% on income from “unrelated business” activities (i.e. not charitable and educational)
 - May need to subcontract or otherwise handoff operational aspects of activities

Regional Activities in North Carolina

Opportunities of Statewide Interoperability: WNC Data Link

Western North Carolina Health Network - Hospital Members



Angel Medical Center
Cherokee Indian Hospital
Community CarePartners/Thoms
Harris Regional Hospital (WestCare)
Haywood Regional Medical Center
Highlands-Cashiers Hospital
Mission St. Joseph's
Murphy Medical Center

Pardee Hospital
Park Ridge Hospital
Rutherford Hospital
St. Luke's Hospital
Spruce Pine Community Hospital
Swain County Hospital (WestCare)
The McDowell Hospital
Transylvania Community Hospital

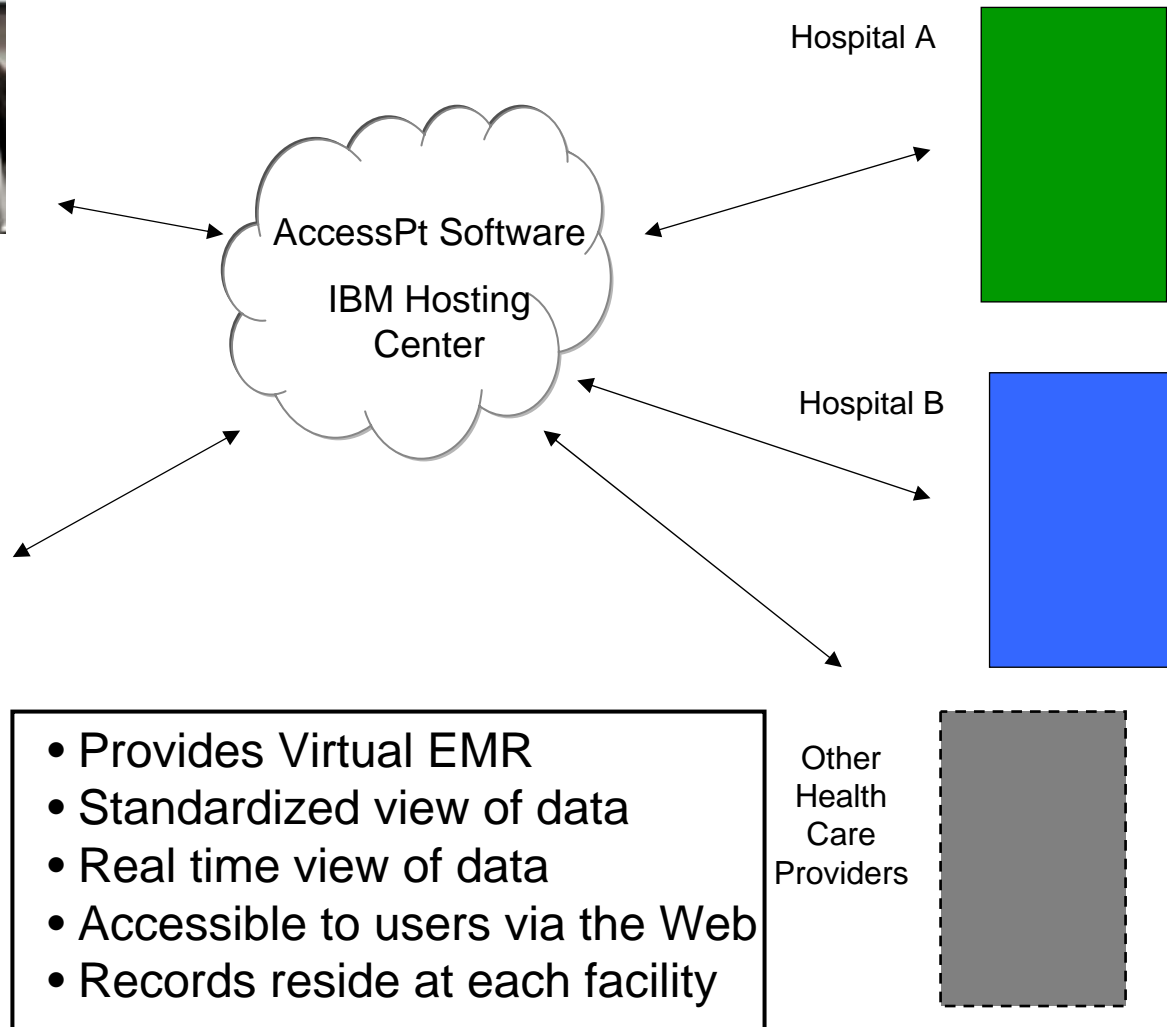
WNC Data Link

- **Long range goal**
 - Longitudinal electronic medical record that can be accessed and updated real time by authorized health care providers in WNC.
- **Short term goal**
 - Transmit and access electronic patient information between WNC hospitals
- **Parameters**
 - No central data repository
 - Technology neutral

WNC RHIO - Architectural Solution



Physician B



Recommendations for Success

Statewide interoperability is important, but:

- Interoperability with bordering states may be more important for a RHIO like WNC:





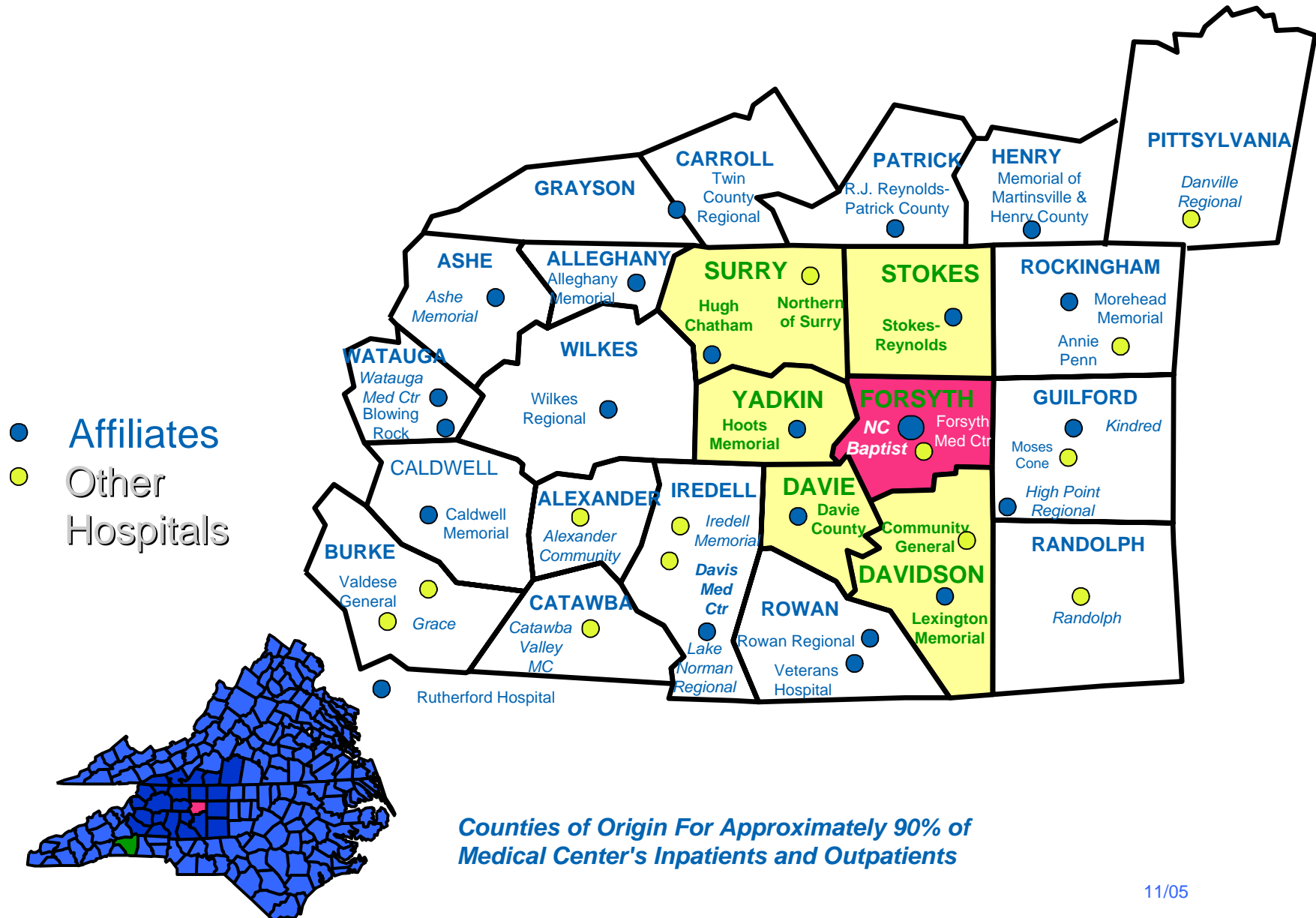
Opportunities of Statewide Interoperability

- **Technology is the “enabler”**
 - Patient Safety
 - All necessary/relevant information available to clinicians at the point and time of need
 - Clinical decision support to help clinicians process vast amounts of data
 - Resolves legibility issues
 - Quality
 - Standardization of care/benchmarking
 - Efficiency
 - Saves time
 - Eliminates redundant procedures (costs)

Recommendations for Success

- State leadership and leaders of healthcare organizations must continue to support dialogue/education on the issue
- Funding assistance for rural providers
- Leverage the efforts of the larger health systems – collaboration not competition when it comes to Information Technology
- Eliminate some of the barriers posed by various state and federal regulations (HIPAA)
- Adopt a common terminology (SNOMED?)

WFUBMC Referral Area Hospitals



Alliance for Health Mission Statement

- The Alliance for Health (AFH) is Wake Forest University Baptist Medical Center's network of:
 - affiliated physicians
 - hospitals, and
 - health service providers
- dedicated to improving the health status and access to quality, cost-effective community based services in collaboration with citizens, employers, and payors in North Carolina and southern Virginia.

Risks/Concerns/Challenges

- **Internal to the Institution / Network**

- Dilution of Effort: Project competing against other pressing needs
- Preservation of investment
- Increased costs of IT (perceived or real)
- Lack of Accountability of Resources – IT & Other

- **External to the Institution / Network**

- Security – Data & Physical Resources
- Rights in Data – who “owns” the data and who can make changes (tracking changes)
- Reliability of Data – potential mismatching of patients & data corruption
- Linking Outside: Standards, reliability, controls
- Business Continuity: Destruction/Recoverability of critical resources
- Lack of Accountability & Control (perceived or real)

Risks/Concerns/Challenges

- **General Concerns**

- Competition for resources
 - ROI Model for RHIOs
- Governance
- Loss of Differentiation & Branding
- Perceived long term loss of a franchise in critical business lines
- Helping the “competition”
- Liability – General & Medical

- **Common Challenges**

- Need interoperability standards
- Money, money, money
 - Start-up funds
 - Sustainable funding model
 - Payers will not pick up the full tab
- Blueprint for a technology architecture
 - Distributed versus centralized data structure
 - Low technology user interface
- Politics
 - Finding, or creating, a neutral entity to sponsor RHIO – i.e., a “Switzerland”
- Competitive differences
 - Lack of trust among parties
 - Fear of lost advantage
 - Pride of ownership

Risks/Concerns/Challenges

Business Opportunities & Challenges

- + Potential increase in referral base
- + Improved ease of inter-institution partnering
- + Enhanced Pay for Performance opportunities (non full risk)
- + Ease of practice for physicians
- ± Reimbursement – Payers: *Rewards or Punishment*
 - ✓ Non participation in Pharmacy / Med Records
 - ✓ Loss of revenue due to denial of charges for duplicate tests, etc.
 - ✓ Long term reimbursement shift for non participation (quality view):
 - Medicare, Medicaid, Other Payers
 - Leap Frog, et al
- Potential Stark Issues
- NCGS.8-53 Physician Patient Privilege–Patient authorization needed
- Referrals – loss of out of network referrals from RHIO members
- Medical errors – understanding of patient's current Meds or History

Recommendations for Success

- **Involve major players in planning – CEOs, COOs, CMOs, CIOs, Legal, Corporate Compliance, etc ~ avoid “one champion” or pure tech view**
- **Develop Trust & Communicate**
- **Money, Money, Money – Where is the money coming from? Remember the CHINs?**
- **Address Governance & Accountability Concerns**
- **Understand their business issues and concerns and be prepared to address them early in the cycle**
- **The major IDNs will need to feel they will not be:**
 - Subsidizing the smaller providers
 - Giving away their hard earned franchise or market share
- **Focus on some quick wins (Utility model) while actively moving toward the Neutral, Convener, Facilitator model**
- **Approach the Reluctant with demonstrated success and compelling documented benefits**
- **Enterprise at Risk – address adjudication of liability**

Conclusions and Recommendations

Striving for Cooperation in NC

- Transparency and Trust
- Ground rules for maintaining a safe atmosphere
- Balance of power and influence
- Shared goals and interests
- Inclusive governance
- Shared responsibility and input
- Shared ownership and commitment
- Ongoing management and support
- Clear roles and responsibilities.
- Active participation

Stakeholder Inclusion

- Physician groups (primary and specialty care)
- Hospitals
- Public health agencies
- Payers (including employers)
- Clinicians
- Federal health Facilities (DoD, VA, IHS, SSA)
- Community clinics and health centers
- Laboratories
- Pharmacies

Stakeholders (cont.)

- Consumers
- Professional associations and societies
- State government (Medicaid, State Health Plan, Public Health, DOI, DOJ, etc.)
- Long term care facilities and nursing homes
- Homecare and hospice
- Correctional facilities
- Medical and public health schools that undertake research
- Quality improvement organizations

If we were to start over ...

- **Focus on clear drivers:**
 - Quality of care and affect on cost
 - Chronic conditions
 - Physician work flow – save time and improve job satisfaction (meds history, allergies, problem lists)
 - Build on quick wins (low-hanging fruit) with obvious benefits to the public (e.g. immunizations, meds)
 - Focus on complex and most costly healthcare cases (chronic conditions)

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Thank You

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